

Computer Science 1820

Solutions for Recommended Exercises

Section 1.2

8. (a) According to De Morgan's Laws, the negation of the compound proposition $p \wedge q$ is $(\neg p) \vee (\neg q)$, while the negation of $p \vee q$ is $(\neg p) \wedge (\neg q)$. Consequently, the negation of the given sentence is "Kwame will not take a job in industry and will not go to graduate school," which simplifies to "Kwame will not take a job in industry nor go to graduate school."
- (b) "Yoshiko does not know Java or doesn't know calculus."
- (c) "James is not young or isn't strong," which simplifies to "James is old or weak."
- (d) "Rita will not move to Oregon and won't move to Washington."